QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 set /101-150 cum	126.41	12	12

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-27-73** **Date: 17-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೦೯

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Technical Manager

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Lab ID : CP-RW-2021-01-27-73

Date: 26-12-20

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.4	14.4	3.03	97.0	90-100
19	24	38.4	8.08	91.9	71-95
13.2	120	158.4	33.35	66.7	56-80
4.75	96	254.4	53.56	46.4	38-54
2.36	91.2	345.6	72.76	27.2	28-42
0.3	62.4	408	85.89	14.1	7-21
0.075	52.8	460.8	97.01	3.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	0	0	0.00	100.0	90-100
19	48	48	10.08	89.9	71-95
13.2	15	63	13.24	86.8	56-80
4.75	296	359	75.42	24.6	38-54
2.36	74	433	90.97	9.0	28-42
0.3	32	465	97.69	2.3	7-21
0.075	10	475	99.79	0.2	2-8

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Date: 22-12-20

Lab ID	:	CP-RW-2021-01-27-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-20
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	19-12-20

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2021-01-27-73 Date: 16-12-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-12-20
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	14-12-20
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2021-01-27-73**	**Date: 17-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."	
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-12-20	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	14-12-20	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	15.0		
Strength	Aggregate Impact Value	20.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2021-01-27-73 Date: 07-12-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-20
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	05-12-20
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-27-73** **Date: 30/11/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2020	30/11/2020	149.71 X 151.51 X 150.92	22684	8.134	427.7	18.9	18.6
2	Drain Side Wall Concrete	M20	23/11/2020	30/11/2020	151.17 X 149.91 X 149.51	22662	8.224	408.5	18.0	
3	Drain Side Wall Concrete	M20	23/11/2020	30/11/2020	149.89 X 151.99 X 151.15	22782	8.705	428.8	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2020

Lab ID	:	CP-2021-01-27-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2020	21/12/2020	149.36 X 149.96 X 150.17	22397	8.523	522.6	23.3	22.8
2	Drain Side Wall Concrete	M20	23/11/2020	21/12/2020	149.88 X 149.33 X 149.08	22381	8.794	492.8	22.0	
3	Drain Side Wall Concrete	M20	23/11/2020	21/12/2020	149.49 X 149.41 X 151.59	22335	8.169	517.3	23.2	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-27-73**

Date: 17-11-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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ಪಿ.ಐ.ಎಂ.ಎಸ್. ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	CP-2021-01-27-73 **Date: 13-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-11-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	12-11-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MAN

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-27-73** **Date: 18/12/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/11/2020	18/12/2020	149.39 X 149.57 X 150.39	22343	8.523	516.1	23.1	22.9
2	Drain Bottom Slab Concrete	M20	20/11/2020	18/12/2020	150.15 X 150.53 X 149.12	22602	8.794	499.2	22.1	
3	Drain Bottom Slab Concrete	M20	20/11/2020	18/12/2020	149.76 X 149.63 X 151.11	22409	8.169	527.0	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/11/2020

Lab ID	:	CP-2021-01-27-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/11/2020	27/11/2020	149.67 X 149.52 X 151.74	22379	8.134	418.1	18.7	18.5
2	Drain Bottom Slab Concrete	M20	20/11/2020	27/11/2020	149.50 X 150.39 X 151.13	22483	8.224	420.5	18.7	
3	Drain Bottom Slab Concrete	M20	20/11/2020	27/11/2020	150.11 X 149.71 X 151.59	22473	8.705	408.5	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/12/2020

Lab ID	:	CP-2021-01-27-73
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 22nd and 23rd Main Road and Surrounding Areas of Judicial Layout in Ward No : 04 Yelahanka Upanagara."
Agency	:	Sri.K.S.Rohit, No:4, Surabhi Laggere Main Road, Opp Ganesha Temple, Bangalore-560058.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/149/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	20/11/2020	18/12/2020	150.52 X 151.75 X 149.63	22840	8.523	540.0	23.6	23.0
2	Drain Bottom Slab Concrete	M20	20/11/2020	18/12/2020	151.29 X 150.35 X 149.84	22746	8.794	504.1	22.2	
3	Drain Bottom Slab Concrete	M20	20/11/2020	18/12/2020	149.53 X 151.30 X 150.66	22623	8.169	525.4	23.2	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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